

COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

729 N.E. Oregon, Suite 200, Portland, Oregon 97232

Telephone (503) 238-0667 Fax (503) 235-4228 www.critfc.org

TO: Technical Management Team (TMT)

FROM: Kyle Dittmer, *Hydrologist-Meteorologist*, CRITFC Hydro Program

DATE: October 12, 2005

SUBJECT: Impact of Pool Fluctuations on the 2005 Autumn Treaty Fishery

CRITFC submitted four System Operation Requests (2005-C4 through 2005-C7) via the NMFS' TMT forum to support autumn treaty fishing. The CRITFC requests asked for (1) one-foot elevation bands and (2) stable pool elevations during each week of treaty fishing.

Criterion #1 asked to operate the pools as a hard constraint within a one-foot elevation range for BON, TDA, and JDA pools. The Corps replied with their 1996 policy: 1.5-foot range, hard constraint, only for Bonneville pool, and no constraints at The Dalles or John Day pools.

The table shows the hourly compliance of CRITFC's 1-foot elevation band criteria and the Corps' 1.5-foot criteria during the treaty fishery. Averages from the eight-week 2004 autumn season are also shown.

2005	Bonneville Pool	The Dalles Pool	John Day pool
1 foot range (CRITFC):	75.5 - 76.5 ft	158.5 -159.5 ft	263.5 - 264.5 ft
AUGUST 22 - 26	100%	63%	94%
AUGUST 29 - SEPT 2	100%	72%	100%
SEPTEMBER 6 - 10	100%	72%	48%
SEPTEMBER 12 - 16	100%	99%	58%
SEPTEMBER 19 - 23	100%	94%	29%
SEPTEMBER 28 - 30	100%	92%	93%
average:	100%	82%	70%
2004 average:	81%	72%	51%
			Aug-Sep: 262.5 - 264 ft
1.5 foot range (COE):	75 - 76.5 ft	158 -159.5 ft	Oct: 263.5 - 265 ft
AUGUST 22 - 26	100%	91%	100%
AUGUST 29 - SEPT 2	100%	84%	100%
SEPTEMBER 6 - 10	100%	90%	100%
SEPTEMBER 12 - 16	100%	100%	100%
SEPTEMBER 19 - 23	100%	100%	100%
SEPTEMBER 28 - 30	100%	100%	100%
average:	100%	94%	100%
2004 average:	93%	96%	100%

For pool fluctuations (Criterion #2), shown in Figures 1 through 18, Bonneville pool saw 0.3 - 0.8 foot swings (compared to 0.3 - 1.3 foot swings in autumn 2004). The Dalles pool saw 0.3 - 1.2 foot swings (compared to 0.3 - 1.7 foot swings in autumn 2004). John Day pool saw 0.3 - 0.9 foot swings (compared to 0.3 - 1.2 foot swings in autumn 2004).

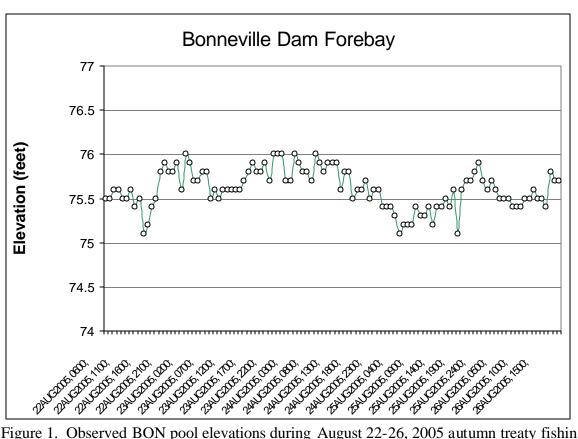


Figure 1. Observed BON pool elevations during August 22-26, 2005 autumn treaty fishing.

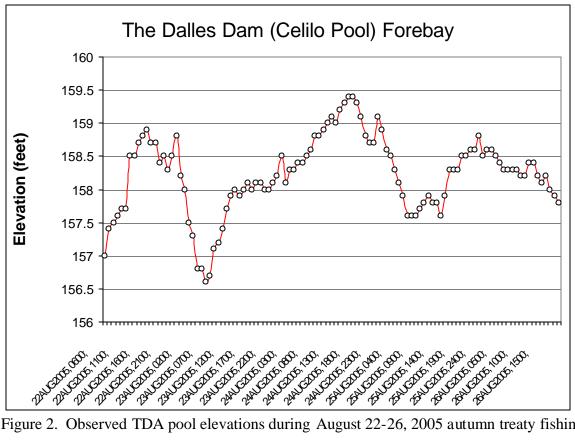


Figure 2. Observed TDA pool elevations during August 22-26, 2005 autumn treaty fishing.

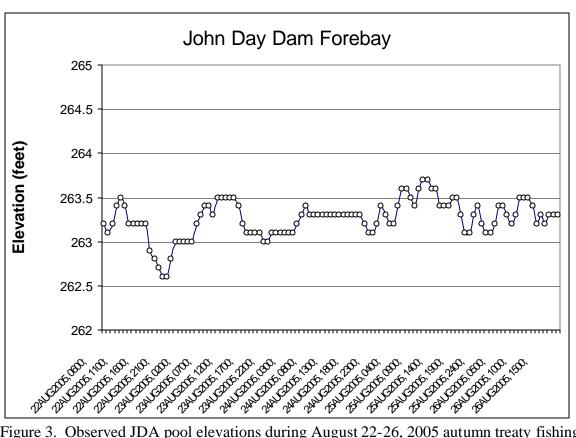


Figure 3. Observed JDA pool elevations during August 22-26, 2005 autumn treaty fishing.

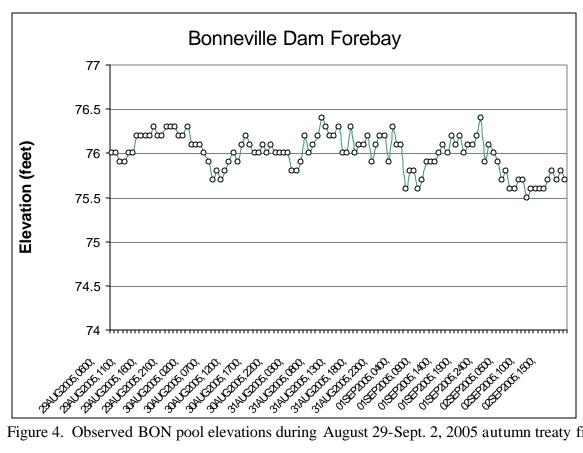


Figure 4. Observed BON pool elevations during August 29-Sept. 2, 2005 autumn treaty fishing.

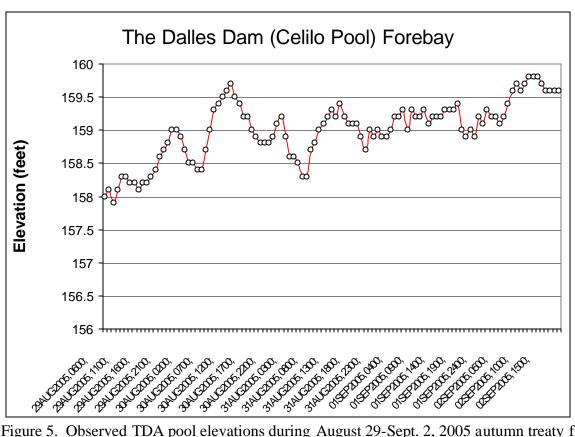


Figure 5. Observed TDA pool elevations during August 29-Sept. 2, 2005 autumn treaty fishing.

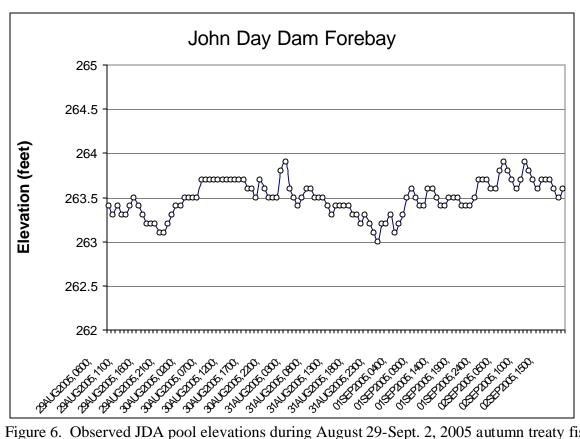


Figure 6. Observed JDA pool elevations during August 29-Sept. 2, 2005 autumn treaty fishing.

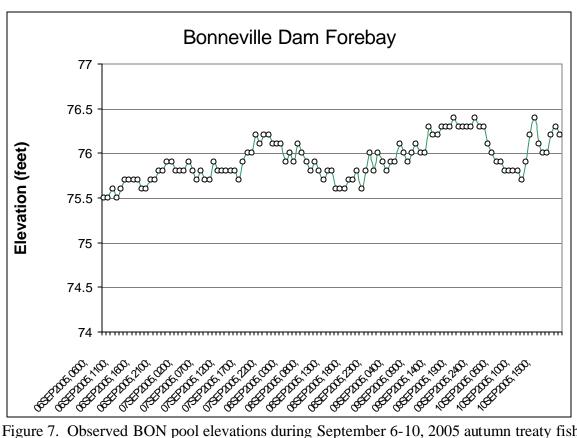


Figure 7. Observed BON pool elevations during September 6-10, 2005 autumn treaty fishing.

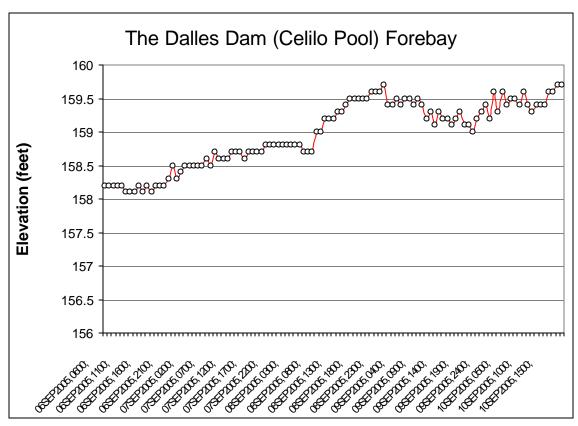


Figure 8. Observed TDA pool elevations during September 6-10, 2005 autumn treaty fishing.

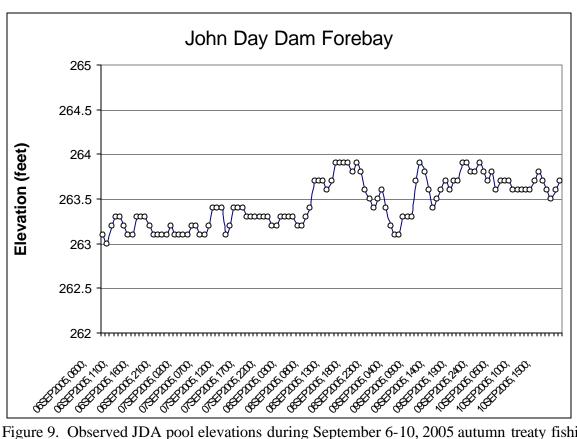


Figure 9. Observed JDA pool elevations during September 6-10, 2005 autumn treaty fishing.

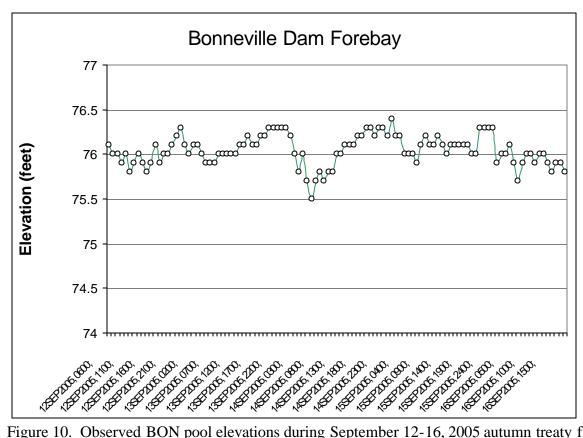


Figure 10. Observed BON pool elevations during September 12-16, 2005 autumn treaty fishing.

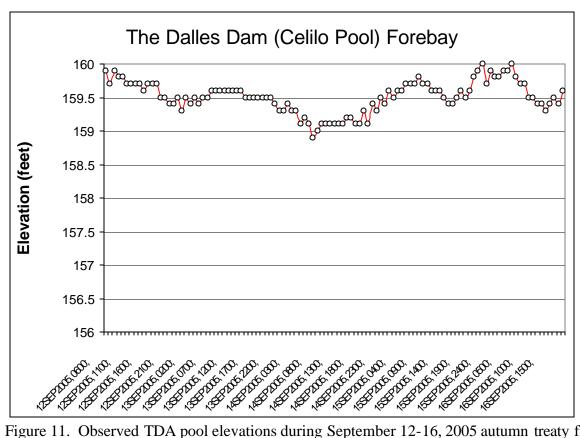


Figure 11. Observed TDA pool elevations during September 12-16, 2005 autumn treaty fishing.

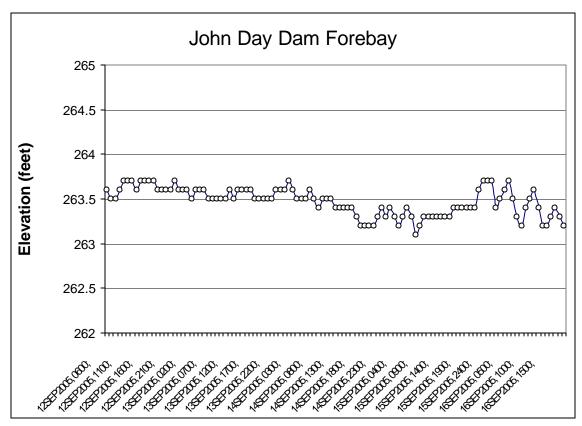


Figure 12. Observed JDA pool elevations during September 12-16, 2005 autumn treaty fishing.

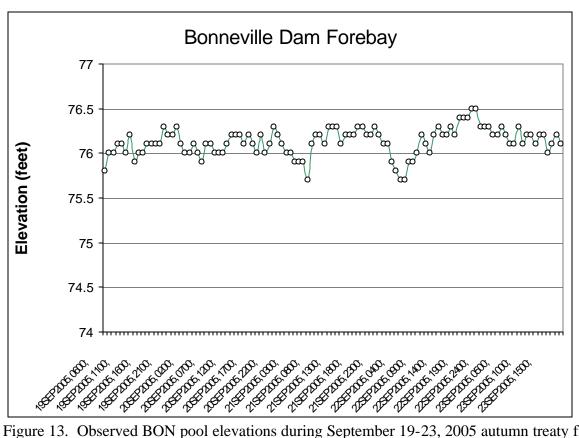


Figure 13. Observed BON pool elevations during September 19-23, 2005 autumn treaty fishing.

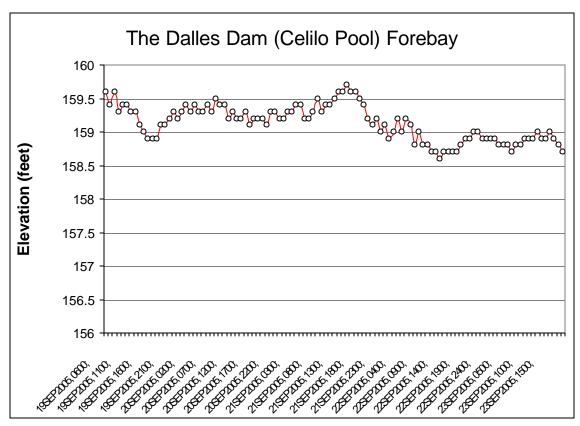


Figure 14. Observed TDA pool elevations during September 19-23, 2005 autumn treaty fishing.

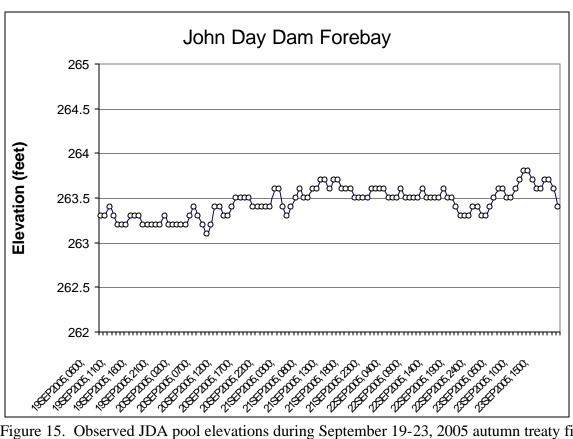


Figure 15. Observed JDA pool elevations during September 19-23, 2005 autumn treaty fishing.

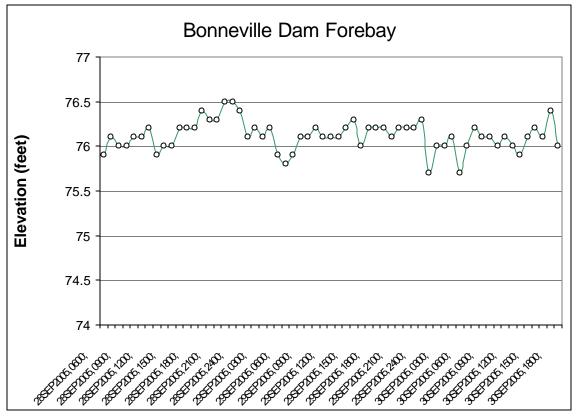


Figure 16. Observed BON pool elevations during September 28-30, 2005 autumn treaty fishing.

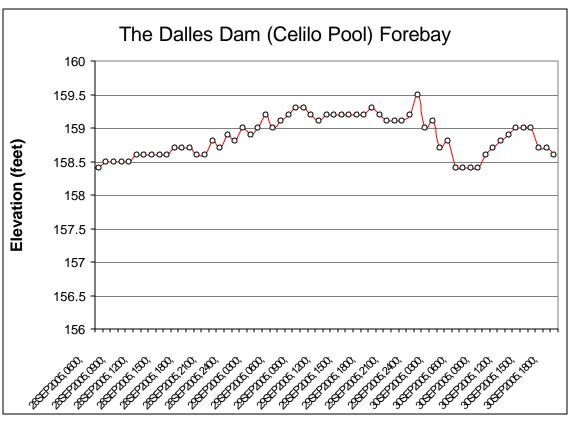


Figure 17. Observed TDA pool elevations during September 28-30, 2005 autumn treaty fishing.

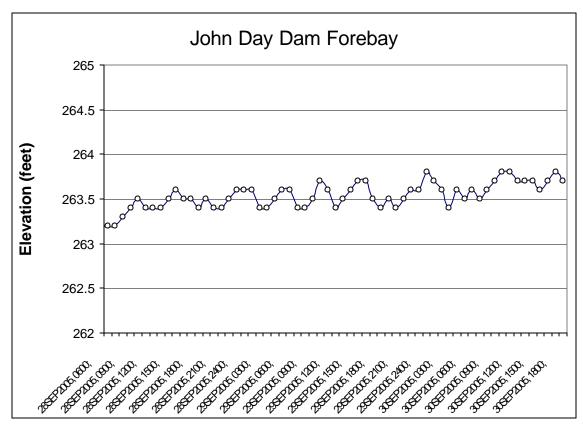


Figure 18. Observed JDA pool elevations during September 28-30, 2005 autumn treaty fishing.